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glare and overall light transmission, two layers of high-contrast blue-blocking amber or color-discriminating grey ophthalmic CR-39® plastic or polycarbonate, sandwiching a polarizing layer. The foregoing layers are arranged to provide a balanced light transmission profile optimum for use on the water in which 100% of UV-A & B light is absorbed to at least 400nm. An alternative embodiment is described in which a Rugate filter is incorporated in place of or in addition to the multi-layer dielectric mirror. The resulting watermens' dielectric-mirrored sunglass lens reduces both overall light transmission and ocular photochemical damage, and is available in either high-contrast blue-light blocking amber or grey coloration.

IN THE CLAIMS:

Please cancel claims 2, 5, 9, 11, 13, 18, 19 and 24-40.

Please amend claims 1, 3, 4, 6-8, 10, 12, 14-17, 20-23.

The following listing of claims will replace all prior versions, and listings, of claims in the application.

LISTING OF CLAIMS:

1.(Amended herein) A sunglass lens, comprising:

a multilayer dielectric mirror for reducing glare and overall light transmission, said dielectric mirror comprising a plurality of angularly displaced thin film layers;

a first layer of ophthalmic plastic colorized with high-contrast blue-blocking amber-tint;

a second layer of ophthalmic plastic colorized with said high-contrast blue-blocking amber-tint;

a polarizing layer encapsulated between said first and second ophthalmic plastic layers;

whereby said layers are arranged to provide a balanced light transmission profile in which substantially 100% of UV-A & B light is ~~absorbed~~ blocked to at least 400nm, and average blue light transmission of said lens is less than 0.4%.

2.(herein canceled).

3.(Amended herein) The sunglass lens according to claim ~~2~~ 1, wherein said first and second layers are CR-39® plastic.

4.(Amended herein) The sunglass lens according to claim ~~3~~ 1, wherein said first and second layers are polycarbonate.

5.(canceled herein)

6.(herein amended) The sunglass lens according to claim ~~5~~ 1, wherein said multi-layered dielectric mirror further comprises at least six thin film layers vacuum deposited atop said first layer of plastic for further reducing light transmission and glare.

7.(Amended herein) The sunglass lens according to claim ~~2~~ 1, wherein said polarizing filter layer is molecularly bonded between said first and second ophthalmic plastic layers to avoid haze and delamination.

8.(Amended herein) ~~The sunglass lens according to claim 1~~ A sunglass lens, comprising:

a multilayer dielectric mirror for reducing glare and overall light transmission, said dielectric mirror comprising a plurality of angularly displaced thin film layers;

a first layer of ophthalmic plastic colorized with ~~, wherein said first and second ophthalmic plastic layers are colorized with~~ a color discriminating grey tint,

a second layer of ophthalmic plastic colorized with said color discriminating grey tint;

a polarizing layer encapsulated between said first and second ophthalmic plastic layers;

whereby said layers are arranged to provide a balanced light transmission profile in which substantially 100% of UV-A & B light is absorbed and the average blue light transmission of said lens is less than 7%.

9.(canceled herein)

10.(Amended herein) A sunglass lens, comprising:

a first layer hydrophobic overcoat for protection from seawater and smudging;

a second layer dielectric mirror for ~~further~~ reducing light transmission and glare, said dielectric mirror comprising a plurality of angularly displaced thin film layers;

a third layer blue-blocking amber-tinted ophthalmic plastic material;

~~a fourth polarizing layer;~~

a fifth layer blue-blocking amber-tinted ophthalmic plastic material;

a fourth polarizing layer molecularly bonded to said third and fifth plastic layers and sandwiched there between to avoid haze and delamination;

whereby said layers are arranged to provide a balanced light transmission profile optimum for use on the water in which substantially 100% of UV-A & B light is ~~absorbed~~ blocked and ~~with~~ at least 99% ~~absorption~~ of blue light is blocked at up to 490 nm.

11.(herein canceled)

12.(Amended herein) The sunglass lens according to claim ~~11~~ 10, wherein said multi-layered dielectric mirror further comprises at least six thin film layers vacuum deposited atop said ~~first~~ third layer of ophthalmic plastic for further reducing light transmission and glare.

13.(herein canceled)

14.(Amended herein) The sunglass lens according to claim ~~13~~ 12, wherein said ~~said first~~ third and ~~second~~ fifth ophthalmic plastic layers are CR-39® plastic.

15.(Amended herein) The sunglass lens according to claim ~~14~~ 12, wherein said ~~first~~ third and ~~second~~ fifth ophthalmic layers are polycarbonate.

16.(Amended herein) The sunglass lens according to claim 14, wherein said ~~first~~ third and ~~second~~ fifth ophthalmic plastic layers are colorized with a high-contrast blue-blocking amber-tint~~, and the~~ that limits average blue light transmission of said lens ~~is~~ to less than 0.4%.

17.(Amended herein) A sunglass lens, comprising:

a first layer hydrophobic overcoat for protection from seawater and smudging;

a second layer dielectric mirror for further reducing light transmission and enhancing UV obstruction;

a third layer color-discriminating grey-tinted ophthalmic CR-39® plastic;

a fourth polarizing layer;

a fifth layer color-discriminating grey-tinted ophthalmic CR-39® plastic;

whereby said layers are arranged to provide a balanced light transmission profile optimum for use on the water in which substantially 100% of UV-A & B light is ~~absorbed~~ blocked and ~~with~~ at least 99% ~~absorption~~ of blue light is blocked at up to 490 nm.

18.(canceled herein)

19.(canceled herein)

20.(Amended herein) The sunglass lens according to claim 17, wherein said second layer dielectric mirror further comprises a multi-layered dielectric mirror.

21.(Amended herein) The sunglass lens according to claim 20, wherein said second layer multi-layered dielectric mirror further comprises at least six thin film layers vacuum deposited atop said ~~first~~ third layer for further reducing light transmission and glare.